Windows®. Life without Walls™.
Panasonic recommends Windows 7.

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ideas for life

THE SEMI RUGGEDIZED, ALL-ROUND NOTEBOOK WITH WIDESCREEN.

TOUGHBOOK CF-52.

The CF-52 is the ideal all-round notebook when you are on the move or in the office. As a Toughbook, it comes up with a range of "ruggedized" features protecting its key components against vibrations and even falls from a height of up 76cm*. The display is surrounded by dampers and is mounted in a durable magnesium case. The hard disk drive is embedded in a shock-absorbing foam and is connected to the motherboard by flexible cabling. The splash resistant keyboard and touchpad helps to stop water or any other liquid from entering the casing and causing internal damage, while rubber port covers protect all sensitive external connections.

- Intel® Core i5 Processor Technology
- Genuine Windows®7 Professional
- 15.4" WXGA Active Matrix (TFT) colour LCD
- Robust magnesium alloy display case
- Shock-protected, easily removable HDD
- Integrated DVD Multi Drive
- Firewire (IEEE 1394a), USB 2.0 and serial port
- Battery life up to 9 hours
- Withstands drops from a height of 76cm*

* Tested in Panasonic Factory.

intel CORE i5 vPro inside

Protect.
Manage.

TOUGHBOOK When it's worth doing better.

www.toughbook.co.uk

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MOBILE BUSINESS EXCELLENCE

Protect. Manage.

The CF-52 has a bright 15.4" widescreen LCD in 16:10 format with WXGA resolution - particularly beneficial when displaying complex graphics. Intel® Core i5 Processor Technology, a weight of only 3.4kg and the integrated carrying handle provide maximum working flexibility. Two Diversity WLAN antennas ensure optimal reception at all times, and finally, state-of-the-art energy-saving components combined with the CF-52's durable battery enable a running time of up to 9 hours.

CPU/Secondary cache memory	Intel® Core i5-520M (2.4 Ghz, Intel® Smart Cache 3 MB)	
Operating System	Genuine Windows® 7 Professional	
Main Memory	2 GB, DDR3 SDRAM (4 GB Max.)	
Chipset	Mobile Intel® QM57 Express Chipset	
Graphic Chip	Intel HD Graphics	
Video Memory	Windows® 7 UMA (763 MB Max. / 1435 MB Max. with expanded memory)	
	Windows® XP UMA (1024 MB Max.)	
Hard Disk Drive	160 GB	
CD/DVD Drive	DVD MULTI Drive	
Display Method	Version 2.0 + E15.4" Active Matrix (TFT) colour LCD 1280 x 800 pixels (WXGA)DR (Class 1); slide on/off switch	
Wireless LAN	Intel® Centrino® Advanced-N 6200 AGN	
Bluetooth™	2.1 + EDR	
LAN	IEEE 802.3 10Base-T / IEEE 802.3u 100BASE-TX / IEEE 802.3ab 1000BASE-T	
Modem	Data: 56 kbps (V.92) FAX: 14.4 kbps	
Sound	WAVE and MIDI playback, Intel® High Definition Audio subsystem support	
Security Chip	TPM (TCG V1.2 compliant)	
Card Slots	PC Card Slot*	x 1, Type I or Type II, Allowable current 3.3 V: 400 mA, 5 V: 400 mA
	ExpressCard Slot*	x 1, ExpressCard/34 or ExpressCard/54
	SD Memory Card Slot	x 1
	RAM Module Slot	x 2, DDR3 SDRAM, 204-pin, 1.8 V, SO-DIMM, PC3-8500 Compliant, one slot occupied
Interfaces	Serial (16550A compatible)	Dsub, 9-pin
	External display (VGA port)	Mini Dsub, 15-pin
	Headphones	Mini-jack, 3.5 DIA, stereo
	Microphone	Mini-jack, 3.5 DIA, stereo
	DC input	Jack
	USB 2.0	4x 4-pin
	Firewire (IEEE1394a)	1x 4-pin
	Modem	RJ-11
	LAN	RJ-45
	Port replicator	100-pin
Keyboard / Pointing Device	87 keys / Touch Pad	
Power Supply	AC adaptor or Battery pack	
AC Adaptor	Input: 100 V - 240 V AC, 50 Hz/60 Hz, Output: 15.6 V DC, 7.05 A	
Power	AC Adapter	Input: 100V ~ 240V, 50Hz/60Hz; Output: 15.6V, 7.05A
	Battery	Lithium-Ion (11.1V, 7.8Ah)
	Battery life	Approx. 9.0h (Windows® 7 model, Mobile MarkTM 2007, LCD brightness: 60cd/m2)
	Charging time	Approx. 4.0h (Power on)
	Power Consumption	Approx. 45W - max. 100W (maximum when recharging)
	Power Management	Standby function, ACPI BIOS
Dimensions (W x H x D)	355.7mm x 50.7-51.9mm x 286.8mm/14.0" x 2.0" x 11.3" (including carrying handle)	
Weight	Approx. 3.4 kg/7.5 lb (including carrying handle)	
Software	Adobe Reader, PC Information Viewer, Loupe Utility, Bluetooth™ Stack for Windows® by TOSHIBA, Wireless Switch Utility, Wireless Connection Disable Utility, Hotkey Settings, Battery Recalibration Utility, Infineon TPM Professional Package, Aptio Setup Utility, Hard Disk Data Erase Utility, PCDiagnostic Utility, Roxio Creator LJB, WinDVD® 8 (OEM Version) Icon Enlarger, Intel® PROSet / Wireless Software	
Options	3G Mobile Broadband (HSPA, up to 7.2Mbps)	
Accessories	AC Adapter	CF-AA5713A
	Battery charger	CF-VCBTB1U
	Battery pack	CF-VZSU29ASU
	Port replicator	CF-VEB522W

* Config. A: 1x PC Card Type I or II + 1x ExpressCard - Config. B:: 2x PC Card Type I or II, no ExpressCard As an ENERGY STAR® Partner, Panasonic Corporation has determined that this product meets the ENERGY STAR® guidelines for energy efficiency. Active Matrix colour display conforms to industry standards. Some displays may contain isolated illuminated or dark pixels as an artefact of the manufacturing process (effective pixels: minimum 99.998%). RAM capacity calculated as follows: 1MB = 1,048,576 bytes. HDD capacity calculated as follows: 1GB = 1,000,000,000 bytes. Toughbook is a brand name and registered trademark of Panasonic Corporation. Acrobat® is a registered trademark of Adobe® Systems Incorporated. Intel, Intel Inside, the Intel Inside logo, Core, Intel Centrino, and the Intel Centrino logo are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries. Microsoft® and Windows® are registered trademarks of Microsoft® Corporation of the United States and/or other countries. All other brand names shown are the registered trademarks of the relevant companies. All rights reserved. All working conditions, times and figures quoted are optimum or ideal levels and may differ as a result of individual and local circumstances. Panasonic Marketing Europe GmbH, Panasonic Computer Products Europe Headquarters, Hagenauer Straße 43, 65203 Wiesbaden (Germany).

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